

STEPPER MOTOR DRIVEN FLUID VALVE AND ASSOCIATED METHOD OF USE

Abstract

A valve for regulating fluid flow and associated method of use.

The valve includes a stepper motor, a first valve chamber having an inlet port, a second valve chamber having an outlet port, wherein the first valve chamber includes an opening between the first valve chamber and the second valve chamber, a first member that is rotatable and operatively attached to the stepper motor, a second member that engages the first member for linear movement of the second member between a first position and a second position when the first member is rotated by the stepper motor, and a sealing mechanism that is operatively attached to the second member, wherein the sealing mechanism can move adjacent to the opening when the second member is in the first position and the sealing mechanism can move away from the opening when the second member is in the second position.